

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US2004/027852

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 B01D53/94 F01N3/28 C04B38/00 B01J35/04 B01D39/20

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 F01N B01D B01J C04B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/175451 A1 (FREDERICK W. VANE ET AL.) 28 November 2002 (2002-11-28) paragraph [0028] - paragraph [0045]; example 1	1-9
Y	US 2001/032459 A1 (SHINYA HIROTA ET AL.) 25 October 2001 (2001-10-25) cited in the application the whole document	1-9
Y	US 5 098 455 A (PETER A. DOTY ET AL.) 24 March 1992 (1992-03-24) cited in the application column 4, line 16 - line 39 column 10, line 8 - line 26	1-9

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

22 November 2004

Date of mailing of the international search report

22.03.2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Bogaerts, M

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

see additional sheet

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

1-9

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-9

Diesel exhaust filter element having a rigid porous wall portion being coated with a catalyst and an adsorbent, the rigid porous wall comprising an acicular ceramic

2. claim: 10

Process for depositing precipitated metal ions on the surfaces of a rigid porous wall

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/US2004/027852

Patent document cited in search report		Publication date		Patent family member(s)	Publication date
US 2002175451	A1	28-11-2002	BR	0209230 A	20-07-2004
			CA	2445107 A1	31-10-2002
			EP	1385803 A2	04-02-2004
			JP	2004536692 T	09-12-2004
			WO	02085482 A2	31-10-2002

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			JP	3573094 B2	06-10-2004
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			EP	0563261 A1	06-10-1993
			JP	6504517 T	26-05-1994
			WO	9211219 A1	09-07-1992
